

ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 1 OF 11

		COMBINE TO THE PARTY OF THE PAR	<u> </u>			Comp	lete if Knov	wn	
INFORMA	TION DISC	LOSURE STATEM	ENT LIST	Applica	tion No.	10/519,			
	•		, '	Intl. Fil	ing Date	May 15,	May 15, 2003		
(Use as many sheets as necessary)			First N	amed Inventor	Prestwi				
					Art Unit	Unansig	ned I	654	
			ŀ		ner Name	Unansie		LUETON	
		The state of the s							
				PATIEN					
Examiner's Initials	Cite No.	Document No.	Date		Name	Class	Subclass	Filing Date (if appropriate	
	A1	6,174,861	01/16/01	O'Re	eilly et al.	514	12		
	A2	6,086,865	07/11/00	Folk	man et al.	424	85.1		
	A3	6,024,688	02/15/00	Folk	man et al.	514	12		
	A4		01/25/00	Folk	man et al.	514	475		
	A5		08/31/99	Folk	man et al.	514	21		
	A6		04/06/99	D'Ar	nato et al.	552	627		
1	A7		03/23/99	O'R	eilly et al.	435	69.1		
	A8	5,874,417	02/23/97		twich et al.	514	54		
	A9		01/19/99	Folk	man et al.	514	2		
XX _	A10	5,854,221	12/29/98	Cao	et al.	514	12		
	A11	5,854,205	12/29/98	O'Re	eilly et al.	514	2		
	A12	5,837,682	11/17/98		man et al.	514	12	-	
	A13		08/11/98		eilly et al.	536	23.1		
	A14		03/31/98		eilly et al.	514	12		
 	A15	5,698,586	12/16/97		imoto et al.	514	475		
 	A16	5,661,143	08/26/97		nato et al.	514	182		
l	A17	5,652,347	07/29/97		yani et al.	536	18.5		
 	A18	5,639,725	06/17/97		eilly et al.	514	12		
] 	A19	5,616,568	04/01/97		yani et al.	514	54		
	A20	5,504,074	04/02/96		nato et al.	514	182		
1	A21	5,290,807	03/01/94		man et al.	514	75		
 	A22	5,135,919	08/04/92		man et al.	514	56		
	A23	4,713,448	12/15/87		zs et al.	536	55.1		
1 × XX	A24		04/15/86		zs et al.	524	29		
~:\		7,002,000	ENDE						
Examiner's	Cite No.	Foreign Patent	Date		lame	CO. T. Carl	Anterior State of State of	Translation	
Initials		Document	1 -2.0	1"				Yes/No	
		Country Code-Number-	1 .						
1 /// ^ ·	A25	Kind Code WO 02/41877	5/30/02		Clear Solutions B	lintech Inc			
	A25 A26	WO 98/22114 A1	05/28/98		Dumex Ltd As	NOTECH IIIC	<u>'</u>		
	A20 A27	WO 96/33750	10/31/96		idia Advanced E	Rionolyme	rs Srl		
Examiner's	Cite No.	NON PATENT DOCUMENTS: Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)							
Initials	UILE 11U.	14017-611	on Chaudia (ii	MUUD MU	HOT THE I DENSITE		goo, Dato and	, idoo of a delication	
100	A 0.0	Agran at at (4007)	Dovolonma	ntolly se	ogrammed ever	occion of	waluraaaa	in human skin and its	
	A28	Agren et al. (1997) Developmentally programmed expression of hyaluronan in human skin and its appendages. J. Invest. Dermatol. 109:219-224.							
1	A29	Aigner et al (1009)	Cartilage ti	ecue es	cineering with a	ovel noon	oven etruc	tured biomaterial based on	
I XX	AZS	hyaluronic acid ber						turca pioritatoriai pasea off	
13/1	A30							on in tissue engineering and	
L.XX	700					.5 and uic	i applicant		
(m)		drug delivery. J. Control. Release 78:199-209.							

Examiner/Signature; // // /	Date Considered:
	10 20 0
LOW X Luli Vara	10-30-110
EXAMINER: Initial if reference considered, whether or not cit	ation is in conformance with MPEP 609; Oraw line through citation if not in conformance and not
considered. Include copy of this form with next communication to	applicant.

ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 2 OF 11

INFORMATIO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT LIST			Application No.	10/519,173	
(1)00.4		shoots on necessary	Intl. Filing Date	May 15, 2003	
(Use a	is many	sheets as necessary)	First Named Inventor	Prestwich et al.	
		·	Group Art Unit	Unassigned	
			Examiner Name	Unassigned	
	A31	Anseth and Bryant (2001) The	effects of scaffold thickn	ess on tissue engineered cartilage in	
\mathscr{S}_{\sim}	7.01	photocrosslinked poly(ethylene	e oxide) hydrogel. Bioma	terials 22:619-26.	
W.	A32	Amold et al. (2000) Evaluation 73:157-161.	of resorbable barriers for	r preventing surgical adhesions. Fert. Steril.	
	A33	The chemistry, biology and me Press, p. 33-42.	edical applications of hyal	nd clinical applications. In: Laurent TC, editor luronan and its derivatives. London: Portland	
A.	A34	based hydrogels, Biomater, So	i. Polym. Ed. 11:383-99.	cal characterization of new hyaluronic acid-	
	A35	derivative gel. J. Surg. Res. 1	00:217-21.	ons with an autocrosslinked hyaluronan	
	A36	hydrocortisone release. J. Co.	ntrolled Rel. 13:33-41.	esters – fabrication methods and in vitro	
De la companya della companya della companya de la companya della	A37	implanted in rats. Biomaterials	s 14:1154-160.	tion of different hyaluronan derivatives (Hyaff)	
	A38	Benesch and Benesch (1958)	Thiolation of protein. Pro	c Nat Acad Sci USA 44:848-53.	
22	A39	Bitter and Muir (1962) A modif	ied uronic acid carbozole	reaction. Anal. Biochem. 4:330-34.	
Del .	A40	Boyce et al. (1988) Reduced wound contraction after grafting of full-thickness burns with a collagen and chondroitin-6-sulfate (GAG) dermal skin substitute and coverage with biobrane. J. Burn Care Rehabil. 9:364-70.			
Z.	A41	Boyce et al. (1993) Skin anato grafts of cultured skin cell and		on after burn wound closure with composite onstr. Surg. 91:632-41.	
22	A42	Boyce et al. (1995) Comparative treatment of full-thickness burn	ve assessment of culture	d skin substitutes and native skin autograft for	
260	A43	Boyce et al. (1997) Hyaluronic macrophages in vitro. British	acid induces tumour ned J. Plast. Surg. 50:362-68.	crosis factor-a production by human	
ZX	A44	Brown et al. (1989) Enhancem New Engl. J. Med. 321:76-79.	ent wound healing by top	pical treatment with epidermal growth factor.	
DL.	A45	Brown et al. (1999) Absorption 113:740-46.	of hyaluronan applied to	the surface of intact skin. J. Invest. Dermatol.	
2	A46		nstructed tissues on hydro	oluronan-based temporary scaffolding. J. Mater.	
QL.	A47	Bulpitt and Aeschlimann (1999) New strategy for chemical modification of hyaluronic acid: Preparation of functionalized derivatives and their use in the formation of novel biocompatible hydrogels. J. Biomed. Mater. Res. 47:152-69.			
2.X	A48	Burdick and Anseth (2002) Photoencapsulation of osteoblasts in injectable RGD-modified PEG hydrogel for bone tissue engineering. Biomaterials 23:4315-23.			
	A49	Burns et al. (1995) Prevention hyaluronic acid solutions. J. S	of tissue injury and posts urg. Res. 59:644-52.	surgical adhesions by precoating tissues with	
25	A50	Burns et al. (1996) A hyaluronate based gel for the prevention of postsurgical adhesions: Evaluation in two animal species. Fertil. Steril. 66:814-21.			
	A51	Burns et al. (1997) Preclinical (577:40-48.	evaluation of Seprafilm bi	ioresorbable membrane. Eur. J. Surg. Suppl.	
De la companya della companya della companya de la companya della	A52			rocedure for the estimation of protein sulfhydryl	

Examiner Signature:	Date Considered: $10-30-06$				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 3 OF 11

				Complete if Known	
INFORMA	TION DISC	CLOSURE STATEMENT LIST	Application No.	10/519,173	
///		sheets as necessary)	Intl. Filing Date	May 15, 2003	
(0)	se as many	Sileets as liecessary	First Named Inventor	Prestwich et al.	
			Group Art Unit	Unassigned	
		•	Examiner Name	Unassigned	
	A53	Campoccia et al. (1996) Quan derivatives. Biomaterials 17:9		e tissue response to films of hyaluronan	
	A54	Campoccia et al. (1998) Semi: 19:2101-27.	synthetic resorbable mate	erials from hyaluronan esterification. Biomateria	
2	A55	Capozzi and Modena (1974) C editor. New York: Wiley, p. 78		Chemistry of the Thiol Group Part II, Patai, S.,	
2	A56	Casabona et al. (1998) Prefab reconstruction in plastic surge	ricated engineered bone	flaps: an experimental model of tissue	
J= -	A57	Chen and Abatangelo (1999)	Functions of hyaluronan	n wound repair. Wound Repair Regen. 7:79-89	
9/	A58	Chen et al. (1997) Photoimmo Chem. 8:730-34.	bilization of sulfated hyal	uronic acid for antithrombogenicity. Bioconjuga	
Dan	A59			d motility (RHAMM), a hyaladherin that regulates . 27:135-42.	
	A60	Choi et al. (1999) Detection of Oncology 57:236-41.	transforming growth fact	tor-a in the serum of gastric carcinoma patients.	
2	A61	Choi et al. (1999) Studies on g cross-linked gelatin-hyalurona	gelatin-containing artificia te sponge. J. Biomed. M	I skin, II. Preparation and characterization of later. Res. 48:631-39.	
24	A62	Coelho et al. (1974) Properties 83:379-88.	s of protein polymers as	substratum for cell growth in vitro. J. Cell Physi	
	A63			ted with enhanced motility: implications for an	
	A64	Cooper et al. (1996) The effect	t of an arginine-glycine-a	spartic acid peptide and hyaluronate synthetic es. J. Burn Care Rehabil. 17:108-16.	
2/	A65	Cram et al. (1983) Human skir 23:924-29.	n storage techniques: A s	tudy utilizing a nude mouse recipient. J. Traum	
	A66			neters in the interfacial photopolymerization of	
	A67	Davidson et al. (1991) Hyalurd observations. Clin. Mater. 8:17	nate derivatives and the	ir application to wound healing: preliminary	
	A68	Day and Prestwich (2002) Hys	duronan-hinding proteins	: Tying up the giant. J. Biol. Chem. 277:4585-8	
	A69	Day and Sheehan (2001) Hya Biol. 11:617-22.	luronan: polysaccharide	chaos to protein organisation. Curr. Opin. Struc	
22	A70			aparoscopic adhesion prevention: preclinical	
2	A71	De laco, P. (1999) Adhesion in	in prevention in gynecological surgery: preclinical and clinical studies. In: ences: Redefining Hyaluronan, Abbazia di Praglia, Padua, Italy, p. 345-9.		
	A72	diZerega and Campcau (2001 Update 7:547-55.) Peritoneal repair and po	ost-surgical adhesion formation. Hum. Reprod.	
27	A73	Dowthwaite et al. (1998) An es	essential role for the interaction between hyaluronan and hyaluronan evelopment. J. Histochem. Cytochem. 46:641-51.		
24	A74	Dyson et al. (1997) Effects of I Escherichia coli thioredoxin: si	buried charged groups on cysteine thiol ionization and reactivity in tructural and functional characterization of mutants of Asp 25 and Lys 57.		
10.2	A75	Biochemistry 36:2622-36. Elbert and Hubbell (2001) Con	jugate addition reactions	combined with free-radical crosslinking for the	

10-30-06 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered:

Examiner Signature:

ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 4 OF 11

		Complete if Known			
INFORMATION	ON DISC	LOSURE STATEMENT LIST	Application No.	10/519,173	
		- charate on managemy)	Intl. Filing Date	May 15, 2003	
Ose	as many	sheets as necessary)	First Named Inventor	Prestwich et al.	
İ			Group Art Unit	Unassigned	
			Examiner Name	Unassigned	
()))	A76	Flisspeff et al. (1999) Transde	rmal photopolymerization	for minimally invasive implantation. Proc. Natl.	
	710	Acad. Sci. USA 96:3104-07.			
A	A77	Elisseeff et al. (2000) Photoen	capsulation of chondrocy	tes in poly(ethylene oxide) based semi-	
200		interpenetrating networks. J. E	Biomed. Mater. Res. 51:1	64-71.	
192	A78	Ellman, G. L. (1958) A colorim Biochem. Biophys. 74:443-50.		ing low concentrations of mercaptans. Arch.	
	A79	Entwistle et al. (1996) HA Rec	eptors: regulators of sign	aling to the cytoskeleton. J. Cell Biochem.	
		61:569 - 77.			
	A80	Feinberg and Beebe (1989) Hy	valuronate in vasculogen	esis. Science 220:1177-79.	
	A81	Foschi et al. (1990) Hyaluronio in rats. Int. J. Tiss. React. XII:		ee-radical damage to granulation tissue: a study	
	A82	Fraser et al (1997) Hyajurona	n: its nature distribution	functions and turnover. J. Intern. Med.	
2	702	242(1):27-33.			
0.7	A83	Fratianne et al. (1993) Keratin		e healing of split-thickness donor sites:	
			ment of burns. J. Burn Care & Rehabil. 14:148-54.		
\mathcal{S}	A84	Friedman et al. (1965) Relative nucleophilic reactivities of amino groups and mercaptide ions in additional reactions with unsaturated compounds. J. Am. Chem. Soc. 87:3672-82.			
(2)	A85	Gerdin and Hallgren (1997) Dynamic role of hyaluronan (HYA) in connective tissue activation and			
200		inflammation. J. Intern. Med. 242:49-55.			
200	A86	Ghofrani et al. (1988) The influence of systemic growth hormone administration on the healing time of skin graft donor sites in a pig model. Plast. Reconstr. Surg. 104:470-5.			
	A87	Gibran et al. (1994) Basic fibro	blast growth in the early	human burn wound. J. Surg. Res. 56:226-32.	
6)1	A88	Gilpin et al. (1994) Recombina	nt human growth hormor	ne accelerates wound healing in children with	
200		large cutaneous burns. Ann. S	Surg. 220:19-24.		
De l	A89	Glass et al. (1996) Characteriz Biomaterials 17:1101-08.	ation of a hyaluronic acid	I-Arg-Gly-Asp peptide cell attachment matrix.	
	A90		ion of interleukin-1a, inte	rleukin-6, and basic fibroblast growth factor by	
		cultured skin substitutes before	e and after grafting to full-	-thickness wounds in athymic mice. J. Trauma:	
		Injury, Infec. Crit. Care 40:894	-900.		
	A91	Gospodarowicz et al. (1987) F 5:15.	ibroblast growth factor: S	tructure and biologic properties. J. Cell Physiol.	
0/	A92	Gowland et al. (1996) Marked	enhanced efficacy of cyclosporin when combined with hyaluronic acid.		
		Evidence from two T cell-medi	ated models. Clin. Drug	Invest. 11:245-50.	
	A93	Graham, N. B. (1998) Hydroge			
	A94	Graham, N. B. (1998) Hydroge	els: their future, Part II. Me	ed. Device Technol. 9:22-25.	
I V	A95		F and FGF stimulate wou	nd healing in the genetically diabetic mouse.	
	A96	Am. J. Pathol. 136:1235-46. Hallen et al. (2000) The potential use of hyaluronan-based compounds in laryngeal augmentative			
		surgery, Elsevier Science B. V	., 353-359.		
82	A97	Hanthamrongwit et al. (1996)	Chondroitin-6-sulphate in	corporated into collagen gels for the growth of	
	A 0.0	human keratinocytes: the effect	t of cross-linking agents	and diamines. Biomaterials 17:775-80.	
	A98	Hardwick et al. (1992) Molecul J. Cell Biol. 117:1343-50.	ar cioning of a novel nyal	uronan receptor that mediates tumor cell motility.	
	A99	Harris et al. (1999) Use of hya		autologious keratinocytes and fibroblasts in	
	extensive burns. The Lancet 353:35-36.				

Examiner Signature:	Date Considered: 10 - 30 - 06				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 5 OF 11

			Complete if Known			
INFORMA	TION DISC	LOSURE STATEMENT LIST	Application No.	10/519,173		
,,,		sheets as necessary)	Intl. Filing Date	May 15, 2003		
(0	se as many	Sileets as liecessary)	First Named Inventor	Prestwich et al.		
			Group Art Unit	Uressigged	1654	
			Examiner Name	Unassigned	LUETON	
ΩI	A100	Hascall and Laurent (1997) Hy	aluronan: structure and p	hysical properties.	In Science of Hyaluronan	
		Today: V. C. Hascall and M. Y.	anagishita, Ed.; Seikagak	u Corporation: Tok	kyo.	
	A101	Hebda et al. (1990) Basic fibro	blast growth factor stimul	ation of epidermal	wound healing in pigs. J.	
-27		Invest. Dermatol. 95:626-31.	20) Naval assadiaking me	Abada ta dasina bu	descale Adv Data Dol Ray	
	A102	Hennink and van Nostrum (200 54:13-36.	DZ) Novel crosslinking me	einoas io design ny	drogels. Adv. Drug Del. Rev.	
(Til)	A103		n-modified surfaces for n	nedical devices. M	edical Device Diag. Ind., p.	
D 1		48-58.				
SK	A104	Hong et al. (2001) Study on ge antibiotic and EGF on cell proli	latin-containing artificial s feration during epidermal	skin IV: a comparat healing. Biomater	rials 22:2777-83.	
0/1	A105	Hooker et al. (1999) Prevention	n of adhesion formation w	rith the use of sodic	um hyaluronate-based	
~~~		bioresorbable membrane in a		a repair with polypr	opylene mesh-A randomized,	
A 1	A406	controlled study. Surgery 125: Hu et al. (1999) Polypeptide re	211-10.	oc fibroblact's adhe	esion to hyaluronan strands	
	A106	J. Biomed. Mater. Res. 47:79-6		es iipiopiasts aurie	ssion to nyalufonan suanus.	
707	A107	Hu et al. (2000) Improvement of schwann cell attachment and proliferation on modified hyaluronic acid				
XX		strands by polylysine. Tissue Engineering 6(6):585-93.				
	A108	Huang-Lee et al. (1994) Effect		en fibrillar matrix co	ontraction by fibroblasts. J.	
	A400	Biomed. Mater. Res. 28:123-33 Hubbell, J.A. (1999) Bioactive		Riotechnol 10:12	3.120	
1		Hubbell, J. A. (1995) Biomater				
$(\lambda^{\prime})$	A111	lio et al. (1994) Cell growth on	poly(vinyl alcohol) hydrog	el membranes cor	ntaining biguanido groups. J.	
ZZ.	•	Biomed. Mater. Res. 28:459-63	2.	•		
	A112	Illum et al. (1994) Hyaluronic a	cid ester microspheres a	s a nasal delivery s	system for insulin. J.	
	A113	Controlled Rel. 29:133-41.  Jackson et al. (2002) Paclitaxe	I looded greenlinked hyel	urania acid films fo	r the provention of	
	AIIS	postsurgical adhesion. Pharm		uronic acid illins to	i the prevention of	
W//	A114	Jeong et al. (1999) Thermorev	ersible gelatin of PEG-PL	GA-PEG triblock c	opolymer aqueous solutions.	
		Macromol. 32:7064-69.				
H.	A115	Jiang and Zhu (2001) Polyanio J. Appl. Polym. Sci. 80:1416-2		H-sensitive gels fo	r controlled protein release.	
$\Delta$	A116	Johns et al. (2001) Reduction of		with Intergel ® adh	esion prevention solution: a	
		multicenter study of safety and				
000		604.				
	A117	Johns et al. (1997) Reduction of adhesion formation by postoperative administration of ionically cross			inistration of ionically cross-	
$\sim$	A118	linked hyaluronic acid. Fertil. Steril. 68:37-42.  Jones and Senft (1985) An improved method to determine cell viability by simultaneous staining with				
	7110	fluorescein diacetate-propidium			simulaticous saming with	
	A119	Juhlin, L. (1997) Hyaluronan in				
	A120	Kenchington, A. W. (1958) Che	emical modification of the	side chains of gela		
	A121	King and Patrick (2000) Develo				
		(VEGF)-loaded poly(DL-lactic-				
~ <b>Y</b> A	4.00	encapsulation/single emulsion/				
XXX	A122	Kirker et al. (2002) Glycosamin Biomaterials 23(17):3661-71.	logiycan nyarogei tilms as	s bio-interactive dre	essings for wound healing.	
$\sim$ $\sim$	1	Divinaterials 23(17).3001-71.				

Examiner Signat	ure: // // /	/ Date Considered:						
			$(\Lambda \rightarrow \Lambda \land \Lambda)$					
	$\rightarrow i \times i \times i \times k$	<b>D</b> IA.	111-511-116					
	THE NOTE	<u> </u>	10 20 0					
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not								
			considered. Include copy of this form with next communication to applicant.					

102

			Complete if Known			
INFORMATIO	ON DISC	LOSURE STATEMENT LIST	Application No.	10/519,173		
<b>.</b>			Intl. Filing Date	May 15, 2003		
(Use	as many	sheets as necessary)	First Named Inventor	Prestwich et al.		
			Group Art Unit	Unassigned		
			Examiner Name	Unassigned		
<del>~ ~ ~</del>	1400	16:1 1 1 10000 Chases min				
	A123	donor sites. J. Burn Care Reh	nogiycan nydrogei iilms a Iab 25/3):276-286	s supplemental wound dressing material for		
	A124	Knudson and Knudson (2001)	Cartilage proteoglycans	Semin. Cell Dev. Biol. 12(2):69-78.		
<del> } </del>	A125	Kortemme and Creighton (199	5) Ionization of cysteine	residues at the termini of model a-helical		
V2	,,,_0	peptides. Relevance to unusu	al thiol pKa values in prof	teins of the thioredoxin family. J. Mol. Biol.		
		253:799-812.				
	A126			fibroblast cells on PVA/chitosan-blended		
2		hydrogel. J. Biomed. Mater. R	les. 39:486-90.	and facilitate karatinggude grouth and		
	A127	differentiation on acellular retion	onsulution of SKIN: Florodi Sular darmis - Linvast Di	asts facilitate keratinocyte growth and		
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	A128	Knieger et al. (1981) Involved	and uninvolved skin from	psoriatic subjects: are they equally diseased?		
1 24	7120	Assessment by skin transplant	ted to congenitally athymi	c (nude) mice. J. Clin. Invest. 68:1548-57.		
	A129	Krueger and Shelby (1981) Big	ology of human skin trans	planted to the nude mouse. 1. Response to		
		agents which modify epiderma	I proliferation. J. Invest.	Derm. 76:506-11.		
. \	A130			th factor as a paradigm for growth factor-induced		
		stimulation from the solid phas	se. Nature Med. 2:1022-2	7.		
<i>\</i> }_{.}	A131	Kuo et al. (1991) Chemical modification of hyaluronic acid by carbodiimides. Bioconjugate Chem. 2:232-				
1 × × 1	A132	41.	in days delivery and tissu	e engineering: one laboratory's experience. Acc.		
	AISZ	Chem. Res. 33:94-101.	in drug delivery and assu	e engineering, one laboratory a expensione. These		
	A133		biomaterial: dermal and in	mmunologic compatibility. J. Biomed. Mater.		
090		Res. 27:1129-34.				
	A134		g delivery systems using	hyaluronan and its derivatives. Adv. Drug Deliv.		
	- 4405	Rev. 7:279-93.	of burning Aire Ohe	Die 54,420 22		
<del>                                     </del>		Laurent et al. (1995) Functions	of postcurgical adhesion	formation in the rabbit uterine hom model with		
$\mathbf{I} = \mathbf{V} + \mathbf{I}$	A136	use of hyaluronate/carboxyme				
Lar -	A137	Lee et al. (2000) Controlled gr	owth factor release from	synthetic extracellular matrices. Nature 408:998-		
1 <i>5</i> 2	71.5.	1000.				
	A138	Lee et al. (2001) Biomedical a	pplications of collagen. In	nt. J. Pharm. 221:1-22.		
	A139	Lee and Mooney (2001) Hydro	gels for tissue engineerir	ng. Chem. Rev. 101:1869-79.		
	A140	Lesley et al. (1997) CD44 in in	flammation and metastas	sis. Glycoconjugate J. 14:611-22.		
1 4/	A141		ue engineering using synt	hetic biodegradable fiber scaffolds.Tissue		
	442	Engineering 5:443-51.				
	A142	Lundorff et al. (2001) Reduction of post-surgical adhesions with ferric hyaluronate gel: a European study. Human Reprod. 16:1982-1988.				
H(YY) 1	A143					
DB 1		Control. Release 69(1):169-84	•			
Sall	A144	Luo and Prestwich (1999) Syn	thesis and selective cytot	oxicity of a hyaluronic acid-antitumor		
L L		bioconjugate. Bioconjugate C	hem. 10:755-63.			
101	A145			: a useful intermediate for bioconjugation.		
WV .		Bioconjugate Chem. 12:1085-4		and the set the set of the second second		
	A146			pe reactivity of thiols through the use of charged		
		amino acids. Bioconjugate Ch	iem. 12:1051-56.			

		amino acids.	Bioconjugate Cl	<u>hem. 12:1051-56.</u>	·
		1 0			
Examiner	Signature:	Lak	bay	Date Considered:	10-30-06
EXAMINER			, whether or not citation		with MPEP 609; Draw line through citation if not in conformance and not

#### ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 7 OF 11

			Complete if Known			
INFORMA	TION DISC	CLOSURE STATEMENT LIST	Application No.	10/519,173		
		sheets as necessary)	Intl. Filing Date	May 15, 2003		
(0)	se as many	Silvets as fiecessary)	First Named Inventor	Prestwich et al.		
			Group Art Unit	Unassigned		
			Examiner Name	Unassigned		
	A447	Manky et al. (2002) Synthasia		cy and MT rential toxicity of a novel mitomycin C-		
$\mathscr{S}$	A147	triamcinolone acetineide conju	gate. J. Med. Chem. 45:	122-27.		
00	A148	Mann et al. (2001) Smooth mu	scle cell growth in photog	polymerized hydrogels with cell adhesive and		
			nains: synthetic ECM ana	logs for tissue engineering. Biomaterials		
	A149	21:3045-51.	6) Hyaluronic acid and sk	in: wound healing and aging. Int. J.		
1 1 1	A 149	Dermatology 35:539-44.	o) riyalulorlic acid allu si	in. Would ficaling and aging. This of		
	A150		test of viability for cryopr	eserved human skin. Curr. Surg. 43:296.		
101	A151	Mignatti et al. (1988) Role of d	egradative enzymes in w	ound healing. In: The molecular and cellular		
		biology of wound healing. R. A	. F. Clark and P. M. Hens	son, Ed., Plenum Press: New York.		
21	A152	Miller et al. (1997) Efficacy of	nyaluronic acid/nonsteroi	dal anti-inflammatory drug systems in preventing		
N	A450	postsurgical tendon adhesions	J. Blomed. Mater. Res.	(Appl. Biomater.) 38:25-33.		
	A153	mode of action. Int. J. Tissue F		livery system for diclofenac: a hypothesis for		
(X)	A154	Morimoto et al. (1991) Effects	of viscous hyaluronate-so	odium solutions on the nasal absorption of		
· 1947		vasopressin and an analogue.	Pharm. Res. 8:471-74.			
0.1	A155	Moriyama et al. (1999) Hyaluro	onic acid grafted with poly	(ethylene glycol) as a novel peptide formulation.		
		J. Control. Release 59:77-86.				
X	A156	Murashita et al. (1996) Acceleration of granulation tissue ingrowth by hyaluyronic acid in artificial skin.				
		Brit. J. Plast. Surg. 49:58-63.				
	` A157	Mustoe et al. (1991) Growth factor-induced acceleration of tissue repair through direct and inductive activities in a rabbit dermal ulcer model. J. Clin. Invest. 87:694-701.				
0 %	A158	Nanney, L. (1990) Epidermal and dermal effects of epidermal growth factor during wound repair. J.				
25	71100	Invest. Dermatol. 94:624-29.				
7	A109	National Institutes of Hoalth, G	rant No. NIH 5R01 DC04	336.		
DL	A160	Neely et al. (2000) Gleatinase healing-impaired mice. J. Burr		ealing-impaired mice versus wounds of non- 02.		
N)	A161	Nicolas and Gagnieu (1997) D	enatured thiolated collag	en I. Synthesis and characterization.		
2		Biomaterials 18:807-13.	<del> </del>			
DL	A162	18:815-21.		en II. Crosslinking by oxidation. Biomaterials		
S)	A163	Nightlinger et al. (1995) In: Proc. Intem. Symp. Control. Rel. Bioact. Mater.; Controlled Release Society Inc., Deerfield, USA: Seattle, Washington, USA, p. 738-39.				
$(\lambda, \mathcal{I})$	A164	Ohya et al. (2001) Thermoresponsive artificial extracellular matrix for tissue engineering: hyaluronic acid				
		bioconjugated with poly(N- isopropylacrylamide) grafts. Biomacromolecules 2(3):856-63.				
$\mathcal{O}\mathcal{U}$	A165	Osada et al. (1999) The effect of hyaluronic acid-carboxymethycelluslose in reducing adhesion				
00		reformation in rabbits. J. Int. Med. Res. 27:292-96.				
	A166	Osada et al. (1999) The effect of cross-linked hyaluronate hydrogel on the reduction of post-surgical adhesion reformation in rabbits. J. Int. Med. Res. 27:233-41.				
(2) J	A167	Otulakowski et al. (1994) Use of a human skin-grafted nude mouse model for the evaluation of topical				
- ZX	,,,,,,	retinoic acid treatment. J. Invest. Dermatol. 102:515-18.				
2	A168	Panchagnula et al. (1997) Anir		al drug delivery. Methods. Fin. Exp. Clin.		
~~	1	Pharm. 19:335.				
ZXX	A169	Park et al. (1992) Effects of pro Macromolecules 25:290-95.	otein charge heterogenei	y in protein-polyelectrolyte complexation.		

Examine/ Signature: // // //	Date Considered:		
	1/2		
& QUI X KUM XQX	10-30-00		
500/10 (107/10/000)	7.0		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not			
considered. Include copy of this form with next communication	to applicant.		

# ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 8 OF 11

		· · · · · · · · · · · · · · · · · · ·		Complete if Known
INFORMATION DISCLOSURE STATEMENT LIST		Application No.	10/519,173	
(Head on many chapte on necessary)		Intl. Filing Date	May 15, 2003	
(Use as many sheets as necessary)		First Named Inventor	Prestwich et al.	
			Group Art Unit	Unassigned 1654
		·	Examiner Name	Unassigned
77/1	A170	Peattie et al. (2002) Stimulatio	n of in vivo angiogenesis	by cytokine-loaded hyaluronic acid hydrogel
<i>Y</i>		implants and potential gene ex		r new vessel growth. Biomed. Eng. Soc
		Houston, TX, October 2002.	<del></del>	
t-0	A171	Peppas and Bures (2000) Hyd	rogels in pharmaceutical	formulation. Eur. J. Pharm. Biopharm. 50:27-46.
J.	A172	Acad. Dermatol. 36:544-49.		soft-tissue augmentation implant material. J. Am.
	A173	NMR. J. Am. Chem. Soc. 116	:7515-22.	d: Synthesis, surface morphology, and solid-state
	A174	Pouyani and Prestwich (1994) carriers and novel biomaterials		es of hyaluronic acid oligosaccharides: drug :339-47.
	A175	Prestwich et al. (1998) Chemic	al modification of hyaluro	onic acid for drug delivery, biomaterials, and
<i>VHJ</i>		biochemical probes. In: The C Derivatives. T. C. Laurent, Ed		ledical Applications of Hyaluronan and its
	A176			of hyaluronic acid: synthesis, applications, and
		biodegradation of hydrazide derivatives. J. Control. Release 53:93-103.		
	A177	Prestwich et al. (2000) Chemic	ally-modified hyaluronan	: new biomaterials and probes for cell biology. In:
<i>Y</i>		Abatangelo G, editor. New Frontiers in Medical Sciences: Redefining Hyaluronan. Portland Press:		
	Δ178	London, p. 181-94.  Prestwich, G. D. (2001) Biomaterials from Chemically-Modified Hyaluronan. Glycoforum		
200	. 7170	http://glycoforum.gr.jp/science/hyaluronan/HA18/HA18E.html.		
	A179	Prestwich and Vercruysse (1998) Therapeutic applications of hyaluronic acid and hyaluronan		
24	1 100	derivatives. Pharm. Sci. Technol. Today 1:42-43.		
	A180	Prevo et al. (2001) Mouse LYVE-1 is an endocytic receptor for hyaluronan in lymphatic endothelium. J. Biol. Chem. 276:19420-30.		
QL 1	A181	Puchellc and Peault (2000) Human airway xenograft models of epithelial cell regeneration. Respir. Res. 1, 125-28.		
	A182	Ramamurthi and Vesely (2002) Smooth muscle cell adhesion on crosslinked hyaluronan gels. J. Biomed. Mater. Res. 60:196-205.		
	A183	Richardson et al. (1995) Novel vaginal delivery systems for calcitonin. 1. Evaluation of HYAFF		
22/		calcitonin microspheres in rats. Int. J. Pharm. 115:9-15.		
	A184	Roberts and Sporn (1996) Transforming Growth Factor-beta. In The Molecular and Cellular Biology of		
	A 10E	Wound Repair. 2nd ed., R. Clark, Ed., Plenum Press: New York, Ch. 8, p. 275-308.		
	Algo	Robson et al. (1992) The safety and efficacy of topically applied recombinant basic fibroblast growth factor on the healing of chronic sores. Ann. Surg. 216:401-08.		
1 VV	A186	Rodgers et al. (1997) Reduction of adhesion formation with hyaluronic acid after peritoneal surgery in		
		rabbits. Fertil. Steril. 67:553-58.		
	A187	Rodgers et al. (2000) Effect of oxiplex films (PEO/CMC) on adhesion formation and reformation in rabbit		
17/2		models and on periotoncal infection in a rat model. Fertil. Steril. 73:831-8.		
	A188	Ronchetti et al. (2000) Structural parameters of the human knee synovial membrane in osteoarthritis		
1 <del>~1</del>	A189	before and after hyaluronan treatment. Elsevier Science B. V. 119-127.  Rosenquist et al. (1988) Skin preservation at 4 degrees C: a species comparison. Cryobiology 25:31-7.		
<del>                                     </del>				onate membranes as potential wound dressings:
_ <b>V</b>		evaluation of water vapour and gas permeabilities. Biomaterials 17:1639-43.		
	A191			es: Evaluation of polymeric low-viscosity
2/2		formulations. J. Ocular Pharm. 10:83-92.		

Examiner Signaturer	Lyk	Lan	Date Considered:	10-30-06
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				

# ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 9 OF 11

	<u> </u>	Complete if Known	
INFORMATION DISCLOSURE STATEMENT LIST	Application No.	10/519,173	
	Intl. Filing Date	May 15, 2003	
(Use as many sheets as necessary)	First Named Inventor	Prestwich et al.	
	Group Art Unit	Unassigned	
		<u> </u>	
$\wedge$ 1	Examiner Name	Unassigned	
		aluronic acid after intraperitoneal surgery in	
mice. European Soc. Hum. Re	eprod. Embryol. 14:1470-	72.	
		vork structure of highly crosslinked copolymers of	
PEG-containing multiacrylates  A194 Seckel et al. (1995) Hyaluronic	with acrylic acid. Macro	ctable nerve guide delivery system enhances	
peripheral nerve regeneration			
A195 Short et al. (1996) Percutaneo	us absorption of biologica	ally active interferon-gamma in a human skin	
graft-nude mouse model. Pha	rm. Res. 13:1020-27.		
A196 Shu et al. (2001) Novel pH-ser	nsitive citrate crosslinked	chitosan film for drug controlled release. Int. J.	
Ø Pharm. 212:19-28.			
		tin hydrogel films: a covalent mimic of the	
extracellular matrix for in vitro A198 Shu et al. (2004) In situ crossli		gels for tissue engineering. Biomaterials	
25:1339-48.	ilikable nyalufonan nyufo	gels for assue engineering. Diomaterials	
	25:1339-48. Shu et al. (2002) Disulfide-crosslinked hyaluronan hydrogels. Biomacromolecules 3:1304-11.		
		e hydrogel. Pure Appl. Chem. A. 36:981-89.	
		elerated closure of interstices in explanted	
meshed human skin grafts. J.			
	Sorrell et al. (1999) Versican in human fetal skin development. Anat. Embryol. P. 45-56.		
	using heparin-sepharose chromatography. J. Tiss. Culture Meth. 10:125-32.  Sutherland, I. W. (1998) Novel established applications of microbial polysaccharides. Trends		
Biotechnol. 16:41-6.	established applications	of initiobial polysacchances. Trends	
A205 Swift et al. (1999) Impaired wo	und repair and delayed a	ingiogenesis in aged mice. Lab. Invest. 79:1479-	
87.			
A206 Swift et al. (2001) Age-related			
	117:1027-35.		
A207 Tabata and ikada (1998) Prote	ein release from gelatin m	natrices. Adv. Drug Del. Rev. 31:287-301.	
A208 Tammi et al. (2001) Hyalurona Chem. 276:35111-22.			
143:115-19.			
	The Gordon Research Conference in Signal Transduction By Engineered Extracellular Matrices; June		
	23-27, 2002 at Connecticut College in New London, Connecticut pp. 1-4.		
	Polym. Chem. 35:3553-59.  Tomihata and Ikada (1997) Crosslinking of hyaluronic acid with water-soluble carbodimide. J Biomed.		
· us 1	ossiinking of hyaluronic a	cia with water-soluble carbodimide. J Biomed.	
	eschar excision: a treat	ment system contributing to reduce burn	
mortality. Ann. Surg. 204:272-		ment system contributing to reduce built	
		y for children with burn injuries through the use of	
prompt eschar excision. Ann.	Surg. 208:577-85.		
	Tompkins et al. (1989) Increased survival after massive thermal injuries in adults: preliminary report		
	using artificial skin. Crit. Care Med. 17:734-40.		
▼ A216   Toole, B. P. (1997) Hyaluronar	6 Toole, B. P. (1997) Hyaluronan in morphogenesis. J. Intern. Med. 242:35-40.		

Examiner Signature: // ///	Date Considered:		
19/ (// // //	\\ \Delta		
Lewid Like lan	1//-3/)-1//		
sould we buy	1 20 2N		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not			
considered. Include copy of this form with next communication to	applicant.		

# ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 10 OF 11

		Complete if Known	
INFORMATION DISCLOSURE STATEMENT LIST	Application No.	10/519,173	
	Intl. Filing Date	May 15, 2003	
(Use as many sheets as necessary)	First Named Inventor	Prestwich et al.	
	Group Art Unit	Unassigned	
	Examiner Name	Unassigned	
A217 Toole, B. P. (2001) Hyaluronar			
A217 Toole, B. P. (2001) Hyaluronar	f a cell-associated hvalur	onan binding protein in fibroblast behavior. In:	
The Biology of Hyaluronan. C.	. Foundation, Ed.; J. Wile	y & Sons, Ltd.: Chichester, UK, p. 121-37.	
A219 Verco et al. (2000) Developme	ent of a novel glucose poly	ymer solution (icodextrin) for adhesion	
prevention: pre-clinical studies	. Hum. Reprod. 15:1764	-72.	
	98) Hyaluronate derivativ	es in drug delivery. Crit. Rev. Ther. Drug Carrier	
Syst. 15(5):513-55.  (2) A221 Vercruysse et al. (1997) Synth	esis and in vitro degrada	tion of new polyvalent hydrazide cross-linked	
hydrogels of hyaluronic acid. B	Bioconjugate Chem. 8:68	<b>6-94</b> .	
A222 Vlodavsky, L. (1991) Extracellu	ular sequestration and rel	ease of fibroblast growth factor: a regulatory	
mechanism? Trends Biochem	. Sci. 16:268-71.		
A223 Wemer et al. (1994) Induction wound healing in the genetical	of keratinocyte growth fa	ctor expression is reduced and delayed during	
wound nealing in the genetical A224 West and Hubbell (1995) Com	narison of covalently and	physically cross-linked polyethylene glycol-	
based hydrogels for the prever	ntion of postoperative adh	nesions in a rat model. Biomaterials 16:1153-6.	
A225 West et al. (1991) Angiogenes	is induced by degradation	n products of hyaluronic acid. Science 228:1324-	
26.			
A226 White et al. (1999) Live confoc	al microscopy of oligoned	deotide uptake by keratinlcytes in human skin	
A227 Wiig et al. (1996) Effects of hyd	grafts on nude mice. J. Invest. Dermatol., p. 112.  Wiig et al. (1996) Effects of hyaluronan on cell proliferation and collagen synthesis: a study of rabbit		
flexor tendons in vitro. J. Hand		and contagen synthesis. a stady of rassic	
A228 Willen et al. (1991) Patterns of	glycosaminoglycan/prote	eoglycan immunostaining in human skin during	
aging. J. Invest. Dermatol. 96:	aging, J. Invest, Dermatol, 96:968-74.		
A229 Working et al. (1997) Safety of	f poly(ethylene glycol) and	d poly(ethylene glycol) derivatives. In:	
		tions. J. M. Harris and S. Zalipsky, Ed.;	
A230 Yaacobi et al. (1993) Prevention	American Chemical Society: Washington, D.C., p. 45-57.  Yaacobi et al. (1993) Prevention of postoperative abdominal adhesions by tissue precoating with		
polymer solutions. J. Surgical.	. Res. 55:422-26.		
	Yamauchi et al. (2001) Films of collagen crosslinked by S-S bonds: preparation and characterization.		
Biomaterials 22:855-63.	manuals facility and salety d	arough factors. Int. I. Dormatal. 20:597.04	
	Yates et al. (1991) Epidermal growth factor and related growth factors. Int. J. Dermatol. 30:687-94.  Yoldemir et al. (2002) Comparison of the reduction of postoperative adhesions by two barriers, one		
	solution, and two pharmacologic agents in the rat uterine model. Fertility and Sterility 78(2):335-39.		
A234 Yu and Grainger (1994) Amphi	Yu and Grainger (1994) Amphiphilic thermosensitive <i>n</i> -isopropylacrylamide terpolymer hydrogels		
prepared by micellar polymeriz	prepared by micellar polymerization in aqueous media. Macromolecules 27:4554-60.		
	Responsive Degradation	of Crosslinked Hyaluronic Acid Gels. J. Control.	
Release 22:105-16.	noive degradation of hate	manague hydrogale comprising ergeslinkad	
	Yui et al. (1993) Photo-Responsive degradation of heterogeneous hydrogels comprising crosslinked hyaluronic acid and lipid microspheres for temporal drug delivery. J. Control. Release 26:141-45.		
	Yui et al. (1993) Regulated release of drug microspheres from inflammation responsive degradable		
matrices of crosslinked hyaluro	matrices of crosslinked hyaluronic acid. J. Control. Release 25:133-43.		
<b>•</b> • • • • • • • • • • • • • • • • • •	ation of hyaluronic acid de	erivatives by hyaluronidase. Biomaterials	
15:359-65.	and aubunit abarratari	tion of the ret liver and autic hydrogen recenter	
A239   Zhou et al. (1999) Purification a J. Biol. Chem. 274:33831-34.	anu subunii characienzai	tion of the rat liver endocytic hyaluronan receptor.	
J. DIUI. CHEHI. 274.33031-34.			

Examiner Signature: Lay It lay	Date Considered: 10-30-06		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not			
considered. Include copy of this form with next communication to	applicant.		

# ATTORNEY DOCKET NO. 21101.0036U2 APPLICATION NO. 10/519,173 SHEET 11 OF 11

		Complete if Known	
INFORMATION DISCLOSURE STATEMENT LIST	Application No.	10/519,173	
(1)	Intl. Filing Date	May 15, 2003	
(Use as many sheets as necessary)	First Named Inventor	Prestwich et al.	
	Group Art Unit	Unassigned	
$\wedge$ 1	Examiner Name	Unassigned	
A240 Zhu et al. (2000) Stabilization of proteins encapsulated in injectable poly(lactide-co-glycolide). Nature Biotech. 18:52-7.  A241 Zimmermann et al. (2002) Novel hydrogel as supports for in vitro cell growth: poly(ethylene glycol)- and gelatine-based (meth)acrylamidopeptide macromonomers. Biomaterials. 23:2127-34.			

David Ryklay

10-30-06

Examiner Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.